

WHAT IS CLAIMED IS:

1 1. A method of simulating the performance of a system, the method
2 comprising:
3 performing simulation in a first simulation mode for at least a first portion of
4 code that models at least a portion of the system; and
5 performing simulation in a second simulation mode for at least a second
6 portion of code that models at least a portion of the system.

1 2. The method of claim 1, wherein the first simulation mode is a
2 functional simulation mode and the second simulation mode is a performance simulation
3 mode.

1 3. The method of claim 1, wherein the different modes can be invoked
2 within a single simulation program execution run.

1 4. The method of claim 2, wherein the functional simulation mode
2 involves predicting behavior of the at least a portion of the system without regard to
3 execution time.

1 5. The method of claim 2, further comprising adjusting the accuracy of
2 the performance simulation mode for one of the at least a second portion of code.

1 6. The method of claim 2, further comprising adjusting the accuracy of
2 the performance simulation mode for at least two portions of the at least a second portion of
3 code independently.

1 7. The method of claim 2, wherein the functional simulation mode is a
2 subset of the performance simulation mode.

1 8. The method of claim 1, wherein the first portion of code is the same
2 portion of code as the second portion of code during distinct simulation program execution
3 runs.

1 9. The method of claim 1, wherein the first portion of code is the same
2 portion of code as the second portion of code during a single simulation program execution
3 run.

1 10. A system for simulating the performance of a system, the system
2 comprising:
3 a module for performing simulation in a first simulation mode for at least a
4 first portion of code that models at least a portion of the system; and
5 a module for performing simulation in a second simulation mode for at least a
6 second portion of code that models at least a portion of the system.

1 11. The system of claim 10, wherein the first simulation mode is a
2 functional simulation mode and the second simulation mode is a performance simulation
3 mode.

1 12. The system of claim 10, wherein the different modes can be invoked
2 within a single simulation program execution run.

1 13. The system of claim 11, wherein the module for performing functional
2 simulation predicts behavior of the at least a portion of the system without regard to
3 execution time.

1 14. The system of claim 11, further comprising a module for facilitating
2 adjustment of accuracy of the performance simulation mode for one of the at least a second
3 portion of code.

1 15. The system of claim 11, further comprising a module for facilitating
2 the adjustment of accuracy of the performance simulation mode for at least two portions of
3 the at least a second portion of code independently.

1 16. The system of claim 11, wherein the functional simulation mode is a
2 subset of the performance simulation mode.